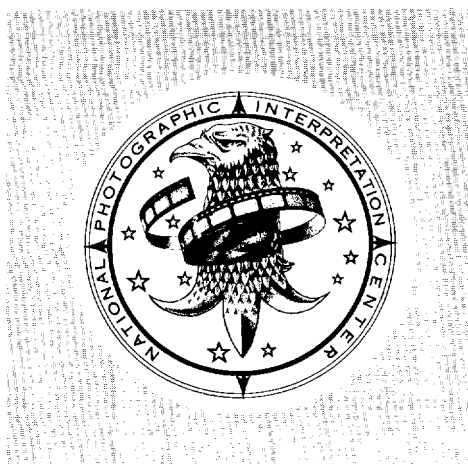


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NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**OAK**

**PHOTOGRAPHIC INTERPRETATION REPORT**

**KH-4 MISSION IIII**

**IPIR NUMBER 6**

**MISSION IIII-2 OAK PART III**

**29 JULY - 10 AUGUST 1970**

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**TCS-20339/70**

**AUGUST 1970**

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**TARGET CATEGORIES  
AND  
ASSOCIATED NTP FUNCTIONAL AREAS (CODES)**

- |  |   |
|--|---|
| 1. STRATEGIC SSM                                       | 7. GROUND   |
| Deployed Strategic SSM Facilities (A)                  | Ground Force Facilities (G)                       |
| 2. MISSILE RANGES                                      | 8. TACTICAL SSM                                   |
| Missile Ranges: Strategic SSM/Space Facilities (P)     | Deployed Tactical SSM Facilities (H)              |
| Missile Ranges: Air-Launched Missile Facilities (Q)    | 9. LOGISTICS                                      |
| Missile Ranges: Naval-Launched Missile Facilities (R)  | Military Logistics Facilities (K)                 |
| Missile Ranges: Tactical SSM Facilities (S)            | 10. NUCLEAR ENERGY                                |
| Missile Ranges: SAM/AMM Facilities (T)                 | Atomic Energy Facilities (O)                      |
| 3. AIR DEFENSE MISSILES                                | 11. CBR   |
| Deployed AMM Facilities (B)                            | CBR Facilities (V)                                |
| Deployed SAM Facilities (D)                            | 12. INDUSTRY                                      |
| 4. ELECTRONICS/COMMUNICATIONS                          | Strategic Weapons Industrial Facilities (J)       |
| Deployed Communication/Electronic/Radar Facilities (C) | General Purpose Weapons Industrial Facilities (L) |
| 5. AIR   | Non-Military Industrial Facilities (N)            |
| Air Base Facilities (E)                                | Communication/Electronic/Radar R&D Facilities (U) |
| 6. NAVAL   | 13. MISCELLANEOUS                                 |
| Naval Base Facilities (F)                              | Non-Military Logistics Facilities (M)             |
|  | Miscellaneous/Unidentified Facilities (Z)         |

These thirteen target categories are compatible with the Functional Area of Imagery Interpretation established under the National Tasking Plan. To enhance the analysis of readout on operationally associated targets, each target is reported relative to its primary functional association (i.e., missile range tracking facilities are reported under "MISSILE RANGES," fly-away airfields at aircraft plants are reported under "INDUSTRY," airfield nuclear weapons storage facilities are reported under "AIR," etc.).


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KH-4 MISSION 1111-2

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PREFACE

# PREFACE

THIS IS THE THIRD AND FINAL OAK REPORT ON MISSION 1111-2. FOR  
COMPLETE PREFACE, SEE OAK PART 1, 1111-1.

## HIGHLIGHTS

## MISSION HIGHLIGHTS

## USSR

## OFFENSIVE MISSILE ACTIVITY

1. TWO SS-9 LAUNCH SITES WERE NEWLY IDENTIFIED IN AN EARLY STAGE OF CONSTRUCTION IN LAUNCH GROUP I AT THE ZHANGIZ-TOBE ICBM COMPLEX.

ONE SS-11 LAUNCH SITE WAS NEWLY IDENTIFIED IN A LATE STAGE OF CONSTRUCTION IN LAUNCH GROUP T AT THE YEDROVO ICBM COMPLEX.

AT THE PERVOMAYSK IRBM COMPLEX, FIVE TYPE IIID LAUNCH SITES WERE NEWLY IDENTIFIED IN EXISTING GROUPS. ONE COMPLETED SITE WAS IN LAUNCH GROUP B, THREE COMPLETED SITES WERE IN LAUNCH GROUP C, AND ONE SITE IN A MIDSTAGE OF CONSTRUCTION WAS IN LAUNCH GROUP E.

## DEFENSIVE MISSILE ACTIVITY

25X1D

25X1D

25X1D

25X1D

25X1D

## 25X1D

3. EIGHT PROBABLE AND TWO POSSIBLE FLOGGER FIGHTER AIRCRAFT WERE OBSERVED ON [REDACTED] AT LIPETSK AIRFIELD WEST. THIS IS AN INCREASE OF THREE PROBABLE AND TWO POSSIBLE FLOGGER SINCE

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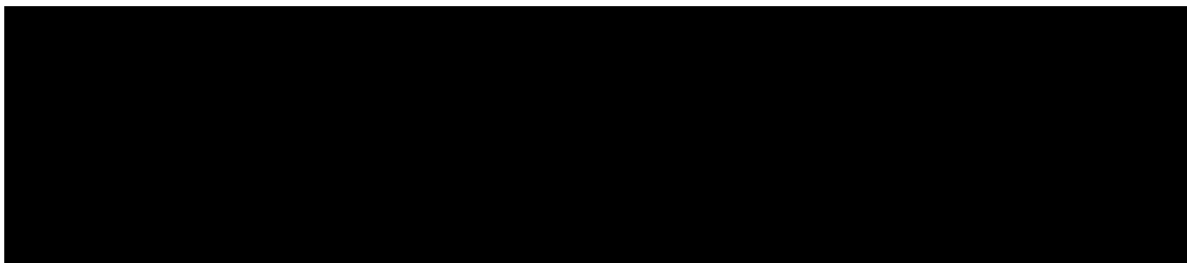
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HIGHLIGHTS

25X1D

[REDACTED], WHEN PROBABLE FLOGGER WERE FIRST SEEN AT THE  
AIRFIELD.

25X6



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CHINA, COMMUNIST  
MISSILE RANGES

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25X1A 25X1A

25X1D

SIGNIFICANT RESULTS

25X1D 25X1D

25X1D

41-08- N 100-15- E

SHUANG-CHENG-TZU MISSILE TEST CENTER

STATUS: OPERATIONAL

25X1D

REMARKS:  
THE ENTIRE MISSILE TEST CENTER WAS COVERED. NO MISSILE OR  
MISSILE-RELATED EQUIPMENT OBSERVED. A NEW TRACKING FACILITY,  
DESIGNATED 24, IS NEAR THE RAIL SPUR 22 NM NORTH OF  
SHUANG-CHENG-TZU AIRFIELD. IT WAS NOT PRESENT IN  
THIS FACILITY IS SIMILAR TO THE NEW TRACKING FACILITIES  
DESIGNATED 21, 22, AND 23.

25X1D

25X1D

25X1D

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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D 25X1A SIGNIFICANT RESULTS 25X1A  
25X1D 25X1D  
30-37- N 032-15- E  
AL ISMAILIYAH SAM SUPPORT FACILITY  
[REDACTED]  
STATUS: NOT OPERATIONAL  
REMARKS:  
BOMB CRATERS ARE WITHIN THE FACILITY.  
25X1D [REDACTED] 25X1D  
25X1A  
25X1D  
25X1D AS SUWAYS SAM SITE B33-2 25X1A 30-12- N 032-22- E  
[REDACTED]  
STATUS: UNOCCUPIED  
REMARKS:  
25X1D BOMB CRATERS WERE OBSERVED IN THE AREA. 25X1D  
[REDACTED] 25X1A 25X1D  
25X1D AS SUWAYS SAM SITE B35-2 25X1A 30-11- N 032-28- E  
[REDACTED]  
STATUS: UNOCCUPIED 25X1D  
REMARKS:  
25X1D BOMB CRATERS WERE OBSERVED IN THE AREA. 25X1D  
[REDACTED]  
25X1D EGYPT SA-2 SITE 325 25X1A 29-34- N 030-57- E  
[REDACTED]  
STATUS: UNDER CONSTRUCTION



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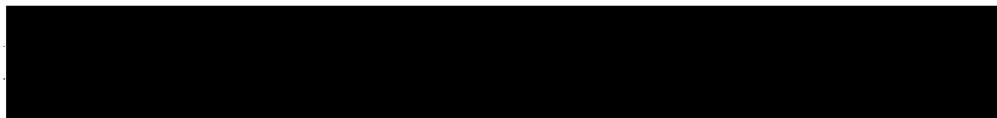
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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

PHYSICAL DESCRIPTION:

3 NM EAST OF AL FAYYUM AIRFIELD. THIS NEWLY IDENTIFIED SA-2  
SITE CONSISTS OF AT LEAST FIVE LAUNCH POSITIONS, A BUNKERED  
GUIDANCE AREA, AND UNIDENTIFIED CONSTRUCTION ACTIVITY.

25X1D



OTHER RESULTS-NO APPARENT CHANGE

25X1D

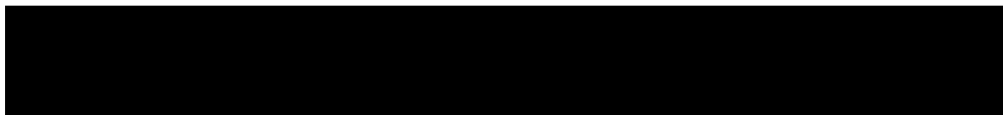
AL FAYYUM SAM SITE B01A-2  
NAC



25X1A 29-34- N 030-51- E  
25X1D 25X1D



25X1D STATUS:UNOCCUPIED



25X1D AL FAYYUM SAM SITE B01-2  
NAC



25X1A 29-31- N 030-51- E  
25X1D 25X1D



STATUS:UNOCCUPIED

25X1D



25X1D AL FAYYUM SAM SITE B01-3  
NAC



25X1A 29-32- N 030-50- E  
25X1D 25X1D



STATUS:UNOCCUPIED

25X1D



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25X1D

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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

SIGNIFICANT RESULTS

25X1A

ALEYSK ICBM COMPLEX

25X1A

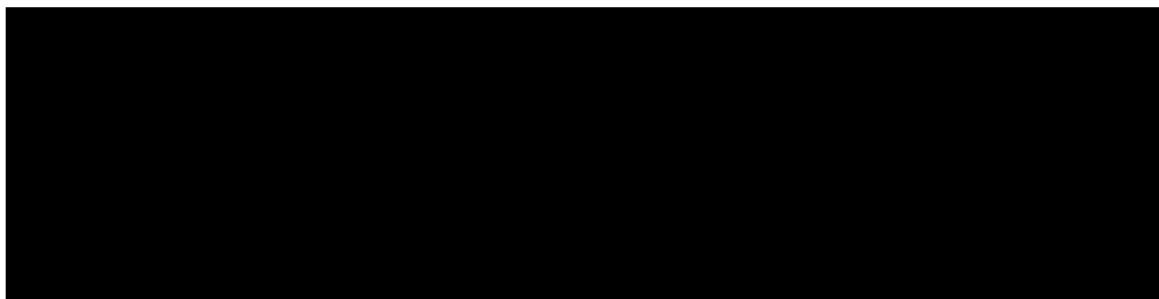
25X1D 25X1D  
52-23- N 082-39- E

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW  
MISSILE FACILITIES OBSERVED.

25X1D



25X1D

BALTA MRBM COMPLEX

NAC

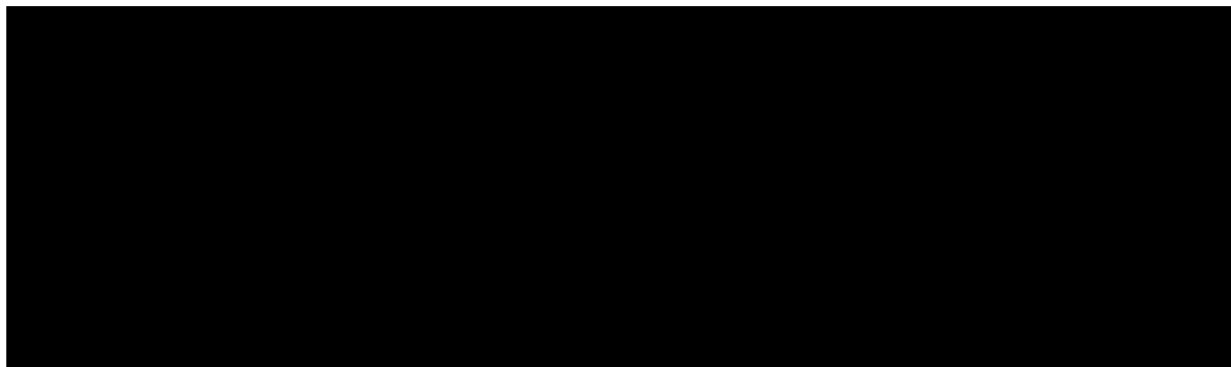
25X1D 25X1D  
25X1A 48-04- N 029-34- E

STATUS: NOT OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. THE SITES  
REMAINED UNOCCUPIED. NO SILO CONSTRUCTION OBSERVED.

25X1D



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KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

BORSHCHEV MRBM COMPLEX  
NAC

25X1D 25X1D  
25X1A 48-52- N 026-06- E

STATUS: OPERATIONAL

25X1D

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. AT LAUNCH SITE 1,  
A MISSILE WAS ALIGNED WITH THE ERECTOR ON THREE OF THE LAUNCH  
PADS ON NO SILO CONSTRUCTION OBSERVED.

25X1D

25X1D

DERAZHNYA MRBM COMPLEX  
NAC

25X1D 25X1D  
25X1A 49-23- N 027-27- E

STATUS: OPERATIONAL

REMARKS:

ALL ELEMENTS OF THE COMPLEX WERE OBSERVED. SS-11 ASSOCIATED  
VEHICLES AND EQUIPMENT WERE OBSERVED AT LAUNCH SITES 1 AND 2.  
A PROBABLE SS-4 MISSILE EXERCISE WAS VISIBLE ON THE SOUTHERN  
PAD AT LAUNCH SITE 2, WITH AN ERECTED MISSILE, MISSILE  
TRANSPORTER, ERECTOR, AND PROBABLE PROPELLANT VEHICLES ON THE  
PAD. NO NEW SILO CONSTRUCTION OBSERVED.

25X1D

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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D



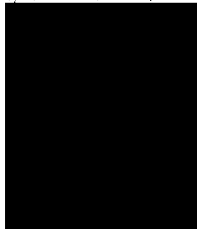
25X1D

25X1D

25X1D

DOMBAROVSKIY ICBM COMPLEX

50-58- [REDACTED] N 059-44- [REDACTED] E



25X1A

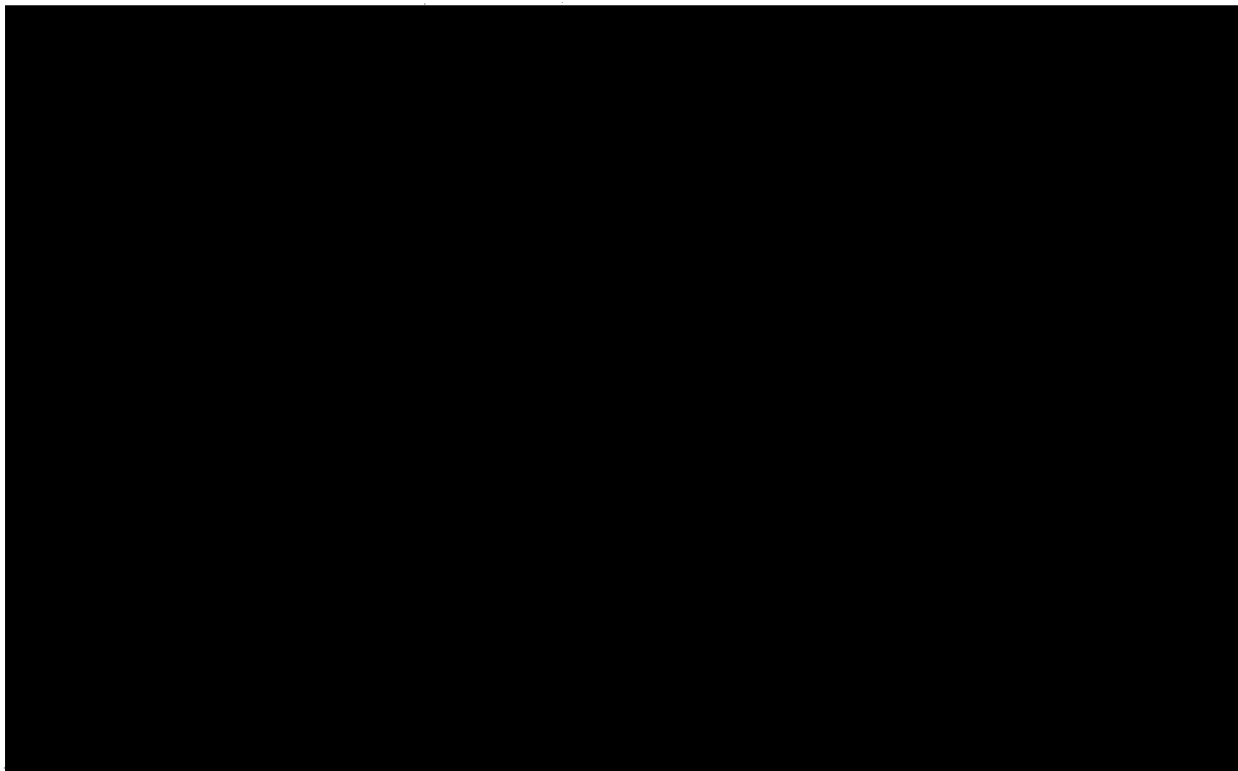
25X1A

STATUS: OPERATIONAL

REMARKS:

FORTY-NINE OF 65 SS-9 LAUNCH SITES WERE OBSERVED. THE  
RAIL-TO-ROAD TRANSFER POINT, THE TRAINING SITE (33X), THE  
COMPLEX SUPPORT FACILITIES, AND THE HEADQUARTERS COMMAND AND  
CONTROL FACILITY COULD BE IDENTIFIED ONLY. NO NEW MISSILE  
ACTIVITY OBSERVED.

25X1D



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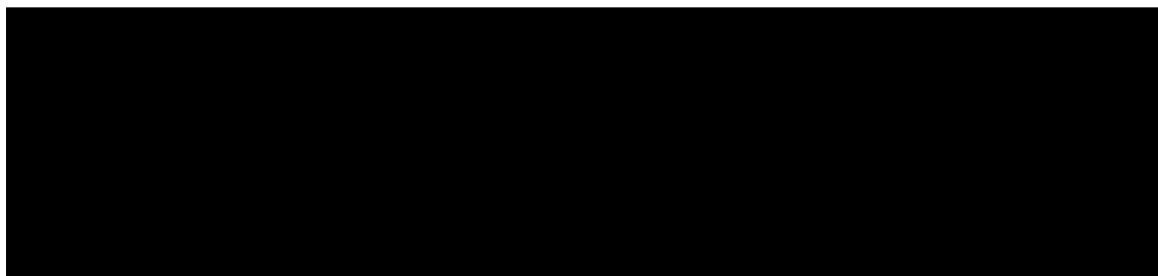
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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D



25X1D

25X1A

25X1D

25X1D

DROVYANAYA ICBM COMPLEX 25X1A

51-28- N 113-01- E

STATUS: OPERATIONAL

REMARKS:  
ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW MISSILE  
ACTIVITY OBSERVED.

25X1D

25X1A

25X1A

25X1D

25X1D

GLADKAYA ICBM COMPLEX

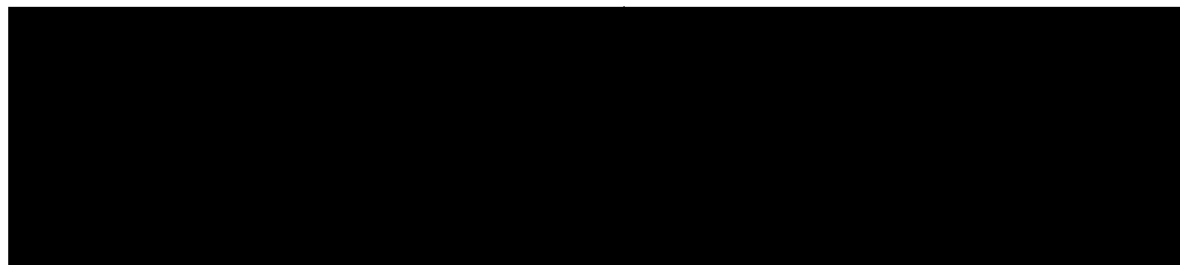
56-15- N 092-13- E

25X1D

STATUS: OPERATIONAL

REMARKS:  
THREE SS-7 LAUNCH SITES, 38 SS-11 LAUNCH SITES, THE TRAINING  
SITE, THE RAIL-TO-ROAD TRANSFER POINT, THE COMPLEX SUPPORT  
FACILITIES, THE HEADQUARTERS COMMAND AND CONTROL FACILITY, AND  
THE ALTERNATE HEADQUARTERS COMMAND AND CONTROL FACILITY WERE  
OBSERVED. NO NEW MISSILE ACTIVITY OBSERVED.

25X1D



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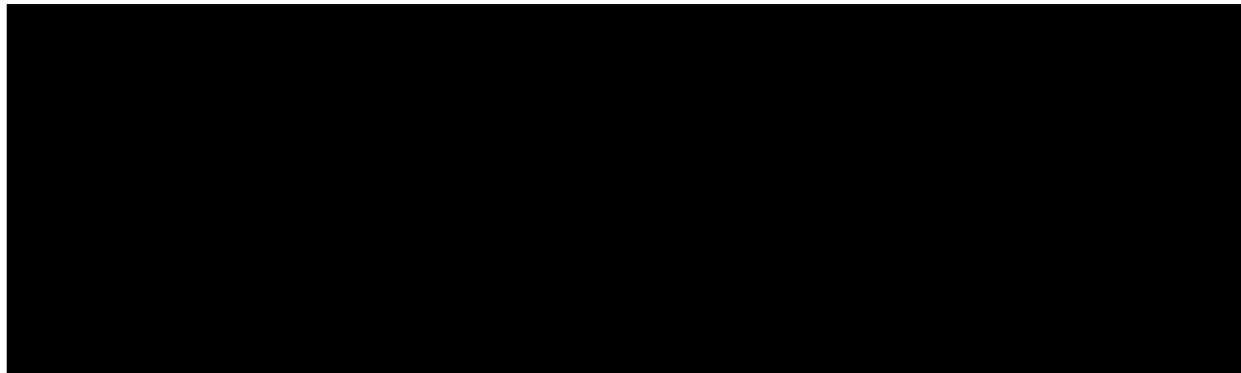
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KH-4 MISSION 1111-2

25X1D

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES



25X1D GRANOV IRBM COMPLEX  
[REDACTED] NAC

25X1D 25X1D  
25X1A 48-52- [REDACTED] N 029-30- [REDACTED] E

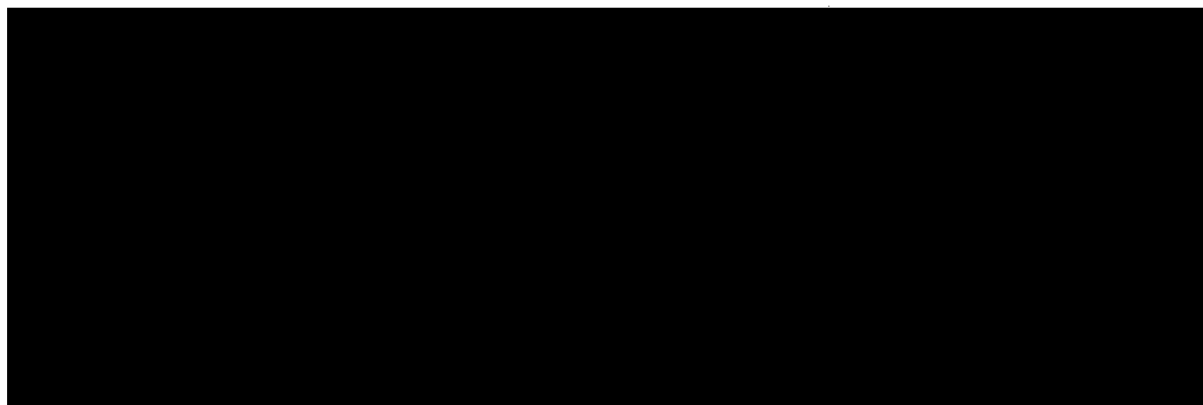
25X1D 25X1D

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. A MISSILE EXERCISE WAS OBSERVED ON [REDACTED] AT LAUNCH SITE 1 ON THE WEST-CENTRAL PAD. ON [REDACTED] THE REAR SILO AT LAUNCH SITE 3 APPEARED TO BE OPEN. NO SILO CONSTRUCTION OBSERVED.

25X1D



GUSEV MRBM COMPLEX  
[REDACTED] NAC

25X1D 25X1D  
25X1A 54-42- [REDACTED] N 022-04- [REDACTED] E

25X1D STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. A NORMAL COMPLEMENT OF ERECTORS AND OXIDIZER TRANSPORTERS WAS OBSERVED

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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D AT BOTH LAUNCH SITES. A POSSIBLE MISSILE WAS OBSERVED ON THE  
SOUTHERN PAD OF LAUNCH SITE 1. NO SILO CONSTRUCTION OBSERVED.

25X1D

25X1A

ITATKA ICBM COMPLEX

25X1A

25X1D 25X1D  
56-56- N 085-36- E

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW  
MISSILE ACTIVITY OBSERVED.

25X1D

25X1A

25X1D

KAMENETS-PODOLSKIY MRBM COMPLEX  
NAC

25X1D 25X1D  
48-52- N 026-51- E

STATUS: UNOCCUPIED

REMARKS:

ONLY LAUNCH SITE 1 WAS INTERPRETABLE. LAUNCH SITE 2 AND FIXED  
FIELD SITE 1 COULD BE IDENTIFIED ONLY. LAUNCH SITE 1 REMAINS  
INACTIVE. NO SILO CONSTRUCTION OBSERVED.

25X1D



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25X1D

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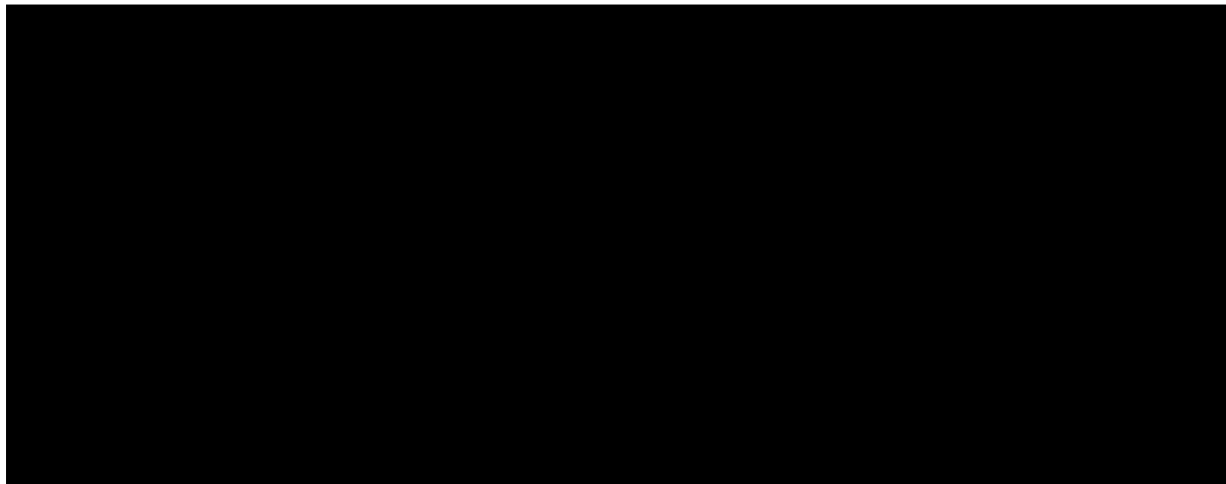
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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D



25X1D

25X1D

25X1D

KOROSTEN MRBM COMPLEX  
NAC

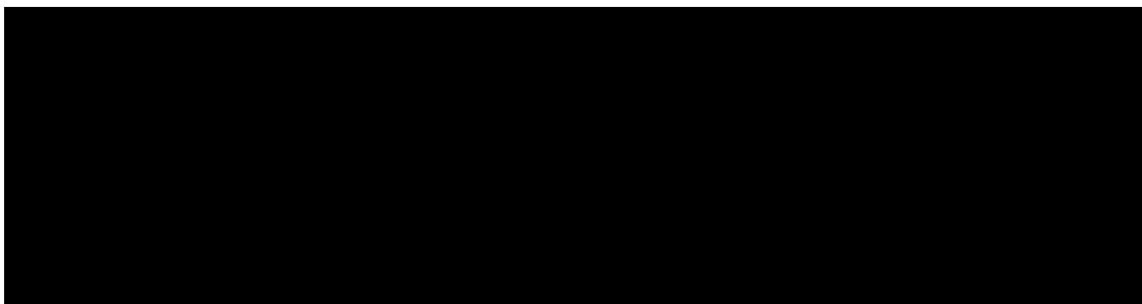
25X1A 50-52- N 028-24- E

STATUS: OPERATIONAL

REMARKS:

ALL ELEMENTS OF THE COMPLEX WERE OBSERVED. A POSSIBLE MISSILE  
EXERCISE WAS OBSERVED AT EACH OF THE TWO LAUNCH SITES. AN  
UNDETERMINED NUMBER OF POSSIBLE VEHICLES AND PIECES OF  
EQUIPMENT WAS AT FIXED FIELD SITES 1 AND 4. NO SILO  
CONSTRUCTION OBSERVED.

25X1D



25X1D

25X1D

25X1A

25X1D KOSTROMA ICBM COMPLEX

25X1A

58-00- N 041-22- E



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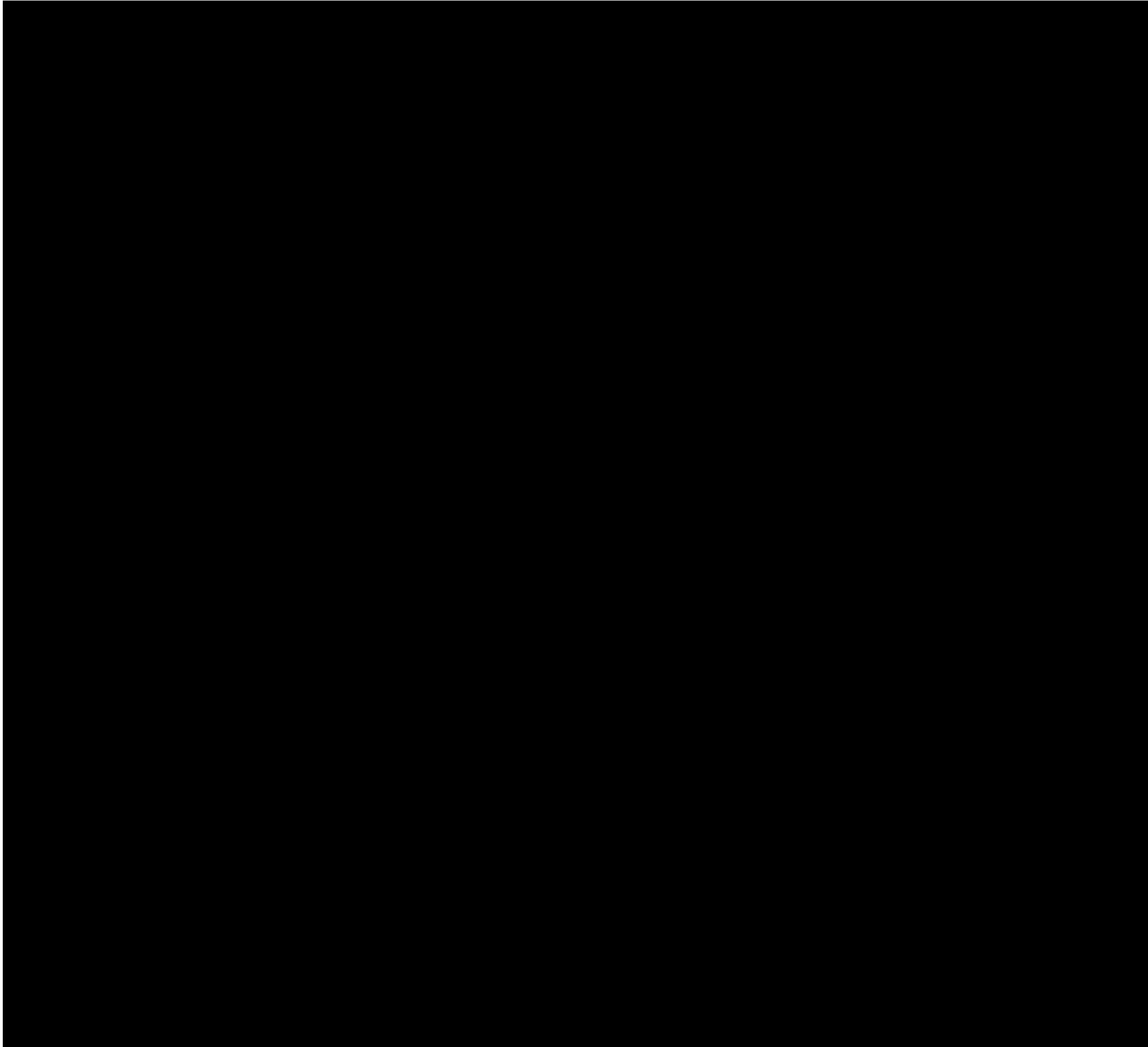
SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D  


STATUS: OPERATIONAL

REMARKS:

SEVEN SS-7 LAUNCH SITES, 85 SS-11 LAUNCH SITES, AND KOSTROMA DUMMY SITE A WERE OBSERVED. THE RAIL-TO-ROAD TRANSFER POINT AND THE COMPLEX SUPPORT FACILITIES COULD BE IDENTIFIED ONLY. LAUNCH SITES 102Q, 104Q, 105Q, AND 108Q-114Q HAVE BEEN COMPLETED. ALL NINE CONFIRMED LAUNCH GROUPS ARE NOW COMPLETE. NO NEW MISSILE ACTIVITY OBSERVED.

25X1D  


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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

25X1A

25X1D

25X1D

KRASNOZNAMENSK MRBM COMPLEX  
[REDACTED] NAC

55-01-[REDACTED] N 022-16-[REDACTED] E

STATUS: OPERATIONAL

REMARKS:  
ONLY PORTIONS OF LAUNCH SITES 1 AND 2 WERE OBSERVED. TWO  
POSSIBLE ERECTORS WERE VISIBLE AT LAUNCH SITE 1. NO SILO  
CONSTRUCTION OBSERVED.

25X1D

25X1D

[REDACTED]

25X1D

25X1D LEBEDIN IRBM COMPLEX  
[REDACTED] NAC

25X1A  
50-34-[REDACTED] N 034-25-[REDACTED] E

STATUS: OPERATIONAL

REMARKS:  
ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. NO SILO  
CONSTRUCTION OBSERVED.

25X1D

25X1D

25X1D

NOVOSIBIRSK ICBM COMPLEX 25X1A  
[REDACTED]

55-21-[REDACTED] N 083-02-[REDACTED] E

25X1A

25X1D

STATUS: UNKNOWN

REMARKS:  
NO KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO MISSILE  
ACTIVITY OBSERVED IN THE VISIBLE PORTION OF THE SEARCH AREA.

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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

[REDACTED]

25X1A

25X1D

25X1D

25X1D OLOVYANNAYA ICBM COMPLEX 25X1A

50-59- [REDACTED] N 115-57- [REDACTED] E

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NEW  
DITCHING WAS OBSERVED BETWEEN THE CONTROL BUNKER AND THE LAUNCH  
SILO AT LAUNCH SITE 55I. NO NEW MISSILE ACTIVITY OBSERVED.

25X1D

[REDACTED]

25X1D

25X1D

25X1A

OMSK ICBM COMPLEX

25X1A

55-07- [REDACTED] N 073-33- [REDACTED] E

25X1D

STATUS: UNKNOWN

REMARKS:

NO KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW  
MISSILE ACTIVITY OBSERVED IN THE VERY SMALL PORTION OF THE  
SEARCH AREA OBSERVED.

25X1D

[REDACTED]

25X1A

25X1D

25X1D

PERM ICBM COMPLEX

25X1A

57-42- [REDACTED] N 056-02- [REDACTED] E

25X1D

STATUS: UNKNOWN

Handle Via  
Talent KEYHOLE  
Control System Only

TOP SECRET RUFF

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

REMARKS:

NO KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW  
MISSILE ACTIVITY OBSERVED IN THE VISIBLE PORTION OF THE SEARCH  
AREA.

25X1D

25X1D

25X1D

25X1A

PERVOMAYSK IRBM COMPLEX

25X1A

47-58- N 030-56- E

25X1D

STATUS: OPERATIONAL

REMARKS:

PERVOMAYSK IRBM SITES 1, 2, AND 3, BOTH RAIL-TO-ROAD TRANSFER  
POINTS, AND 60 TYPE IIID SITES WERE VISIBLE. FIVE TYPE IIID  
LAUNCH SITES, 31C, 61B, 62C, 63C, AND 64E, WERE NEWLY  
IDENTIFIED. SITE 61B IS THE CONTROL SITE. FIVE SS-11 GROUPS  
ARE NOW COMPLETE. LAUNCH SITE 22, FORMERLY IN THE B GROUP, IS  
NOW SEEN TO BE IN THE C GROUP AND SITE 43, FORMERLY IN THE C  
GROUP, IS NOW SEEN TO BE IN THE B GROUP. THE AMOUNT OF  
CONSTRUCTION MATERIALS AT THE KAMENYY MOST TRANSFER POINT HAS  
DIMINISHED CONSIDERABLY SINCE

25X1D

DATA FOR THE NEW SITES -- 25X1D 25X1D

25X1D

LAUNCH SITE	GEOGRAPHIC COORDINATES	CONST STAGE
61B	4811 N 03039 E	COMPLETE
31C	4824 N 03022 E	COMPLETE
62C	4822 N 03020 E	COMPLETE
63C	4817 N 03026 E	COMPLETE
64E	4812 N 03109 E	LATE

25X1D

Handle Via  
Talent-KEYHOLE  
Control System Only

TOP SECRET RUFF

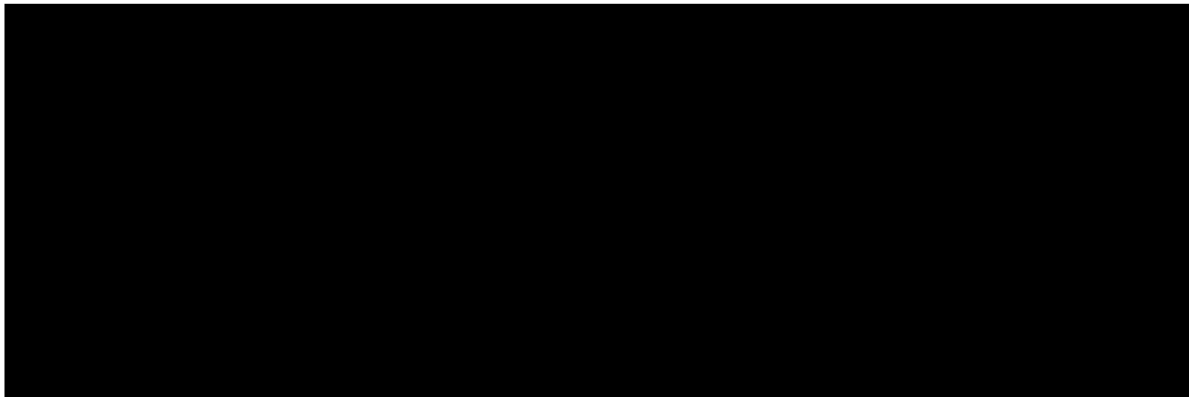
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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

PHOTOGRAPHY OF FAIR INTERPRETABILITY PARTIALLY COVERED THE  
TARGET.

25X1D



25X1D

25X1D

POLOTSK MRBM COMPLEX  
NAC

25X1A

55-23- N 028-39- E

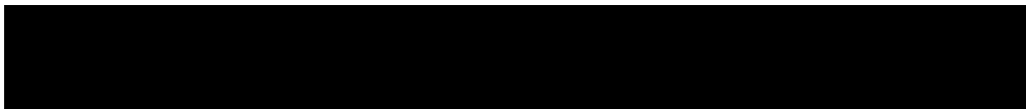
STATUS: OPERATIONAL

25X1D

REMARKS:  
ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. NO SILO  
CONSTRUCTION OBSERVED.

25X1D

25X1D



25X1D

POSTAVY MRBM COMPLEX  
NAC

25X1A

55-15- N 026-52- E

STATUS: OPERATIONAL

25X1D

REMARKS:  
ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. AT LAUNCH SITE 3,  
THREE PROBABLE MISSILE TRANSPORTERS WERE OBSERVED, AND SEVERAL  
POSSIBLE SUPPORT VEHICLES WERE ON THE ROAD LEADING TO THE  
SILOS. NO SILO CONSTRUCTION OBSERVED.

25X1D





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Talent-KEYHOLE  
Control System Only

TOP SECRET RUFF

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KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

SHADRINSK ICBM COMPLEX

25X1A

25X1D

25X1A

25X1D

56-08- N 063-51- E

25X1D

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE AT LEAST PARTIALLY  
OBSERVED. NO NEW MISSILE ACTIVITY OBSERVED.

25X1D

SVOBODNY ICBM COMPLEX

25X1A

25X1D

25X1D

51-52- N 128-16- E

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

ONLY 15 OF THE 60 KNOWN SS-11 SITES WERE OBSERVED. NO NEW  
MISSILE ACTIVITY OBSERVED.

25X1D

25X1D

25X1D

25X1A

TATISHCHEVO ICBM COMPLEX

25X1A

51-38- N 045-28- E

25X1D

STATUS: OPERATIONAL

Handle Via  
Talent-KEYHOLE  
Control System Only

TOP SECRET RUFF

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

REMARKS:  
NINETY-NINE OF THE KNOWN 120 SS-11 LAUNCH SITES, THE  
HEADQUARTERS COMMAND AND CONTROL FACILITY, THE COMPLEX SUPPORT  
FACILITIES, THE RAIL-TO-ROAD TRANSFER POINT, AND THE TRAINING  
SITE WERE OBSERVED. NO NEW MISSILE ACTIVITY OBSERVED.

25X1D

[REDACTED]

25X1D

25X1D

25X1D

TAURAGE MRBM COMPLEX  
[REDACTED] NAC

25X1A 55-07-[REDACTED] N 022-19-[REDACTED] E

STATUS: OPERATIONAL

REMARKS:  
ONLY LAUNCH SITES 1 AND 2, FIXED FIELD SITE 1, AND THE  
COMMUNICATIONS FACILITY WERE OBSERVED. BOTH LAUNCH SITES  
APPEARED TO HAVE A NORMAL COMPLEMENT OF ERECTORS AND OXIDIZER  
TRANSPORTERS. NO SILO CONSTRUCTION OBSERVED.

25X1D

[REDACTED]

25X1A

25X1D

25X1D

TEYKOVO ICBM COMPLEX

25X1A

56-55-[REDACTED] N 040-30-[REDACTED] E

25X1D

[REDACTED]

STATUS: OPERATIONAL

REMARKS:  
ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. LAUNCH  
GROUPS G AND H (THE LAST TWO IDENTIFIED AT THIS COMPLEX) HAVE  
NOT BEEN COMPLETED. THE SS-11 PORTION OF THE RAIL-TO-ROAD  
TRANSFER POINT REMAINS ACTIVE, ALTHOUGH IT HAS NOT BEEN  
COMPLETED. THE MATERIALS AND ACTIVITY IN THE RAILHEAD AND  
STORAGE AREA REMAIN AT A LEVEL SIMILAR TO THAT OBSERVED ON  
[REDACTED] COVERAGE. NO NEW MISSILE ACTIVITY OBSERVED.

25X1D

25X1D

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25X1D

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

YEDROVO ICBM COMPLEX

25X1A

25X1D

25X1D

57-49- [REDACTED] N 033-28- [REDACTED] E

25X1A

STATUS: OPERATIONAL

REMARKS:

THE EIGHT SS-7 LAUNCH SITES, 103 OF THE KNOWN 112 SS-11 LAUNCH SITES, THE HEADQUARTERS COMMAND AND CONTROL FACILITY, THE COMPLEX SUPPORT FACILITIES, THE RAIL-TO-ROAD TRANSFER POINT, AND THE TRAINING SITE WERE OBSERVED. THIS TOTAL INCLUDES ONE NEWLY IDENTIFIED SS-11 LAUNCH SITE DESIGNATED 138T. THE NEW SITE MAKES THE FULL COMPLEMENT OF TEN SITES IDENTIFIED IN LAUNCH GROUP T. SITE 138T AT 57-52- [REDACTED] N 033-14- [REDACTED] E WAS IN THE LATE STAGE OF CONSTRUCTION. IT WAS NOT PRESENT IN [REDACTED] AND WAS FIRST SEEN ON [REDACTED] LAUNCH GROUPS P AND Q WERE OBSERVED TO BE COMPLETE, MAKING TEN OF THE 12 LAUNCH GROUPS COMPLETE AT THIS COMPLEX.

25X1D

25X1D

25X1D

25X1D

25X1D

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Control System Only

TOP SECRET RUFF

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

YOSHKAR-OLA ICBM COMPLEX

25X1A

25X1D

25X1D

25X1A

56-34- N 048-10- E

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED AT LEAST ONCE. A HARDENED (SUB-SURFACE) ANTENNA COULD BE IDENTIFIED AT LAUNCH CONTROL FACILITY D. THIS IS THE FOURTH LAUNCH CONTROL FACILITY TO HAVE SUCH AN ANTENNA. LAUNCH GROUP C STILL HAS NOT BEEN COMPLETED. AT LEAST ONE SITE (49C) IS DEFINITELY NOT COMPLETE, AND TWO OTHER LAUNCH SITES (40C AND 50C) ARE PROBABLY NOT COMPLETE. LAUNCH GROUP D APPEARED TO BE SLIGHTLY (ABOUT THREE TO FOUR MONTHS) BEHIND LAUNCH GROUP C. THE SS-13 PORTION OF THE RAIL-TO-ROAD TRANSFER POINT CONTINUED UNDER CONSTRUCTION. NO NEW MISSILE ACTIVITY OBSERVED.

25X1D

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TOP SECRET RUFF

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

25X1D

25X1D

25X1D

YURYA ICBM COMPLEX

25X1A

59-11- N 049-30- E

25X1A

STATUS: OPERATIONAL

REMARKS:  
ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. LAUNCH SITES 6  
AND 9 WERE ONLY PARTIALLY OBSERVED THROUGH SCATTERED CLOUDS. NO  
NEW MISSILE ACTIVITY OBSERVED.

25X1D

25X1D

25X1D

25X1D

ZHANGIZ-TOBE ICBM COMPLEX

25X1A

49-13- N 081-09- E

25X1A

25X1D

STATUS: OPERATIONAL

25X1D 25X1D

25X1D

25X1D

25X1D

REMARKS:  
ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. THIS  
INCLUDES TWO NEWLY IDENTIFIED LAUNCH SITES DESIGNATED 55I AND  
56I. SITE 55I AT 49-26- N 080-38- E AND SITE 56I AT  
49-32- N 080-37- E WERE NOT PRESENT ON AND WERE  
FIRST SEEN ON IN AN EARLY STAGE OF CONSTRUCTION. THIS  
NOW CONFIRMS PROBABLE LAUNCH GROUP I. PROBABLE LAUNCH SITES  
51I, 52I, 53I, AND 54I ARE NOW CONFIRMED, MAKING THE FULL  
COMPLEMENT OF SIX LAUNCH SITES IDENTIFIED IN LAUNCH GROUP I. NO  
OTHER NEW MISSILE ACTIVITY OBSERVED.

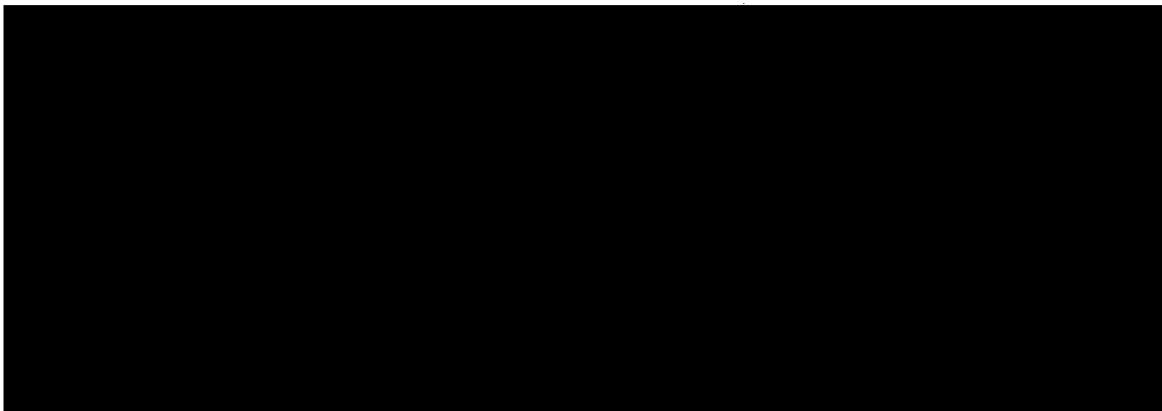
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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES



25X1D

25X1A

25X1A

25X1D

25X1D

25X1D ZHITOMIR MRBM COMPLEX  
NAC

50-07-00N 028-16-00E

STATUS: OPERATIONAL

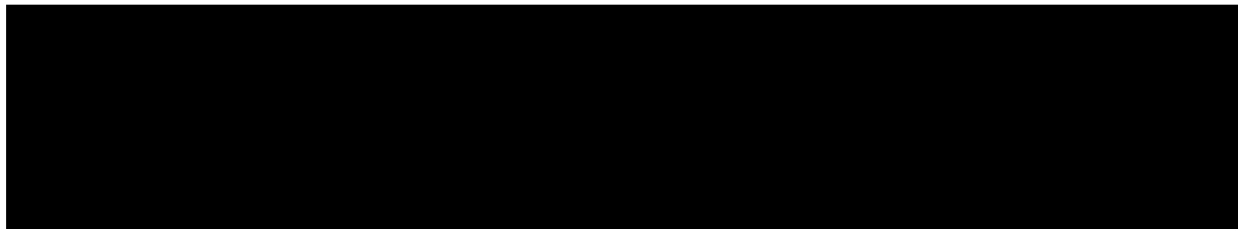
REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. LAUNCH SITE 1  
REMAINED UNOCCUPIED. AT LAUNCH SITE 2, ONE POSSIBLE SS-4  
MISSILE WAS IN FRONT OF EACH OF TWO MISSILE-READY BUILDINGS. NO  
SILO CONSTRUCTION OBSERVED.

25X1D

25X1A

25X1A



25X1D

25X1D

25X1D

ZHMERINKA MRBM COMPLEX  
NAC

49-09-00N 028-08-00E

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. ON 29 JULY AT  
LAUNCH SITE 1, A POSSIBLE MISSILE ON A TRANSPORTER WAS ALIGNED  
WITH THE ERECTOR ON THE WESTERN PAD. AT LAUNCH SITE 2, TWO  
ERECTORS WERE PARKED ON THE WEST-CENTRAL PAD. A POSSIBLE SS-4  
MISSILE WAS ALSO OBSERVED AT LAUNCH SITE 2. NO SILO  
CONSTRUCTION OBSERVED.

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25X1D

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
AIR DEFENSE MISSILES

25X1D

### SIGNIFICANT RESULTS

MOSKVA ABM LAUNCH COMPLEX E05  
NAC

25X1A

25X1D

25X1D

56-14- [REDACTED] N 038-34- [REDACTED] E

STATUS: OPERATIONAL

25X1D

#### REMARKS:

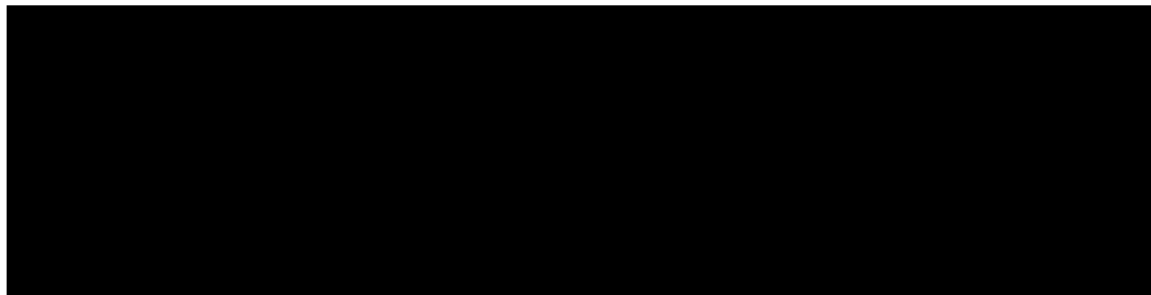
SEVERAL LAUNCH POSITIONS WERE OBSERVED IN THE CLOUD-FREE AREAS.  
A POSSIBLE GALOSH MISSILE CANISTER WAS OBSERVED IN THE  
HORIZONTAL POSITION AT LAUNCH POSITION 1B2 ON [REDACTED]

25X1D

#### MISSILE ORDER OF BATTLE:

1 POSS GALOSH MISSILE  
CANISTER

25X1D



25X1A

25X1D

25X1D

MOSKVA ABM LAUNCH COMPLEX E15

55-09- [REDACTED] N 038-22- [REDACTED] E

25X1A

25X1D

STATUS: NOT OPERATIONAL

25X1D

#### REMARKS:

NO NEW TRACK ACTIVITY OR EVIDENCE OF RENEWED CONSTRUCTION WAS  
OBSERVED IN THE TRY ADD AREA. A NEW BUILDING, MEASURING [REDACTED]  
[REDACTED] WAS IDENTIFIED IN THE NORTHERN  
PORTION OF THE SUPPORT AND HOUSING AREA. AN OPEN TRENCH  
EXTENDED FROM THE HEATING PLANT TO THE NEW BUILDING. THIS  
BUILDING WAS OBSERVED IN THE EARLY STAGES OF CONSTRUCTION ON  
MISSION [REDACTED] A ROOF WAS BEING INSTALLED ON ANOTHER  
BUILDING ON WHICH CONSTRUCTION HAD BEEN SUSPENDED FOR SEVERAL  
YEARS. NO CONSTRUCTION PROGRESS WAS OBSERVED ON THE BUILDING  
FOUNDATION REPORTED ON MISSION [REDACTED]

25X1D

25X1D

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Talent KEYHOLE  
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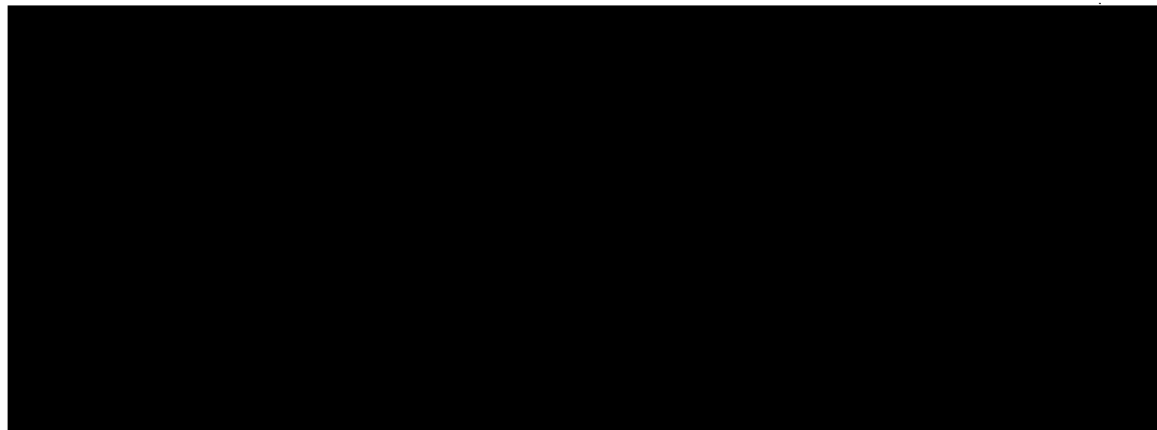
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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
AIR DEFENSE MISSILES

25X1D



25X1D

25X1A

25X1D

25X1D

MOSKVA ABM LAUNCH COMPLEX E24  
NAC

55-21- N 036-29- E

STATUS: OPERATIONAL

REMARKS:

25X1D

25X1D

THE COMPLEX WAS PARTIALLY CLOUD COVERED ON [REDACTED] HOWEVER, POSSIBLE GALOSH MISSILE CANISTERS WERE OBSERVED AT LAUNCH POSITIONS 1C3 AND 1C4. ON COMPLETE COVERAGE OF THE COMPLEX ON [REDACTED] GALOSH MISSILE CANISTERS WERE AT BOTH TRY ADDS. GALOSH MISSILE CANISTERS WERE OBSERVED IN THE ELEVATED POSITION AT LAUNCH POSITIONS 1B1, 1C1, AND 1C4, TRY ADD 1. ANOTHER GALOSH MISSILE CANISTER WAS OBSERVED IN THE HORIZONTAL POSITION AT LAUNCH POSITION 1C3. AT TRY ADD 2, GALOSH MISSILE CANISTERS WERE OBSERVED IN THE HORIZONTAL POSITION AT LAUNCH POSITIONS 2B1, 2B2, AND 2B4. LIMITING WEATHER CONDITIONS PRECLUDED THE IDENTIFICATION OF GALOSH MISSILE CANISTERS ON PHOTOGRAPHY [REDACTED]

25X1D

25X1D

MISSILE ORDER OF BATTLE:

2 POSS GALOSH MISSILE  
CANISTERS

25X1D

7 GALOSH MISSILE CANISTERS

25X1D

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TOP SECRET RUFF

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KH-4 MISSION 1111-2

SOVIET UNION  
AIR DEFENSE MISSILES

25X1D



25X1D

25X1A

25X1D

25X1D

MOSKVA ABM LAUNCH COMPLEX E31

56-08- [REDACTED] N 036-29- [REDACTED] E 25X1A

STATUS: OPERATIONAL

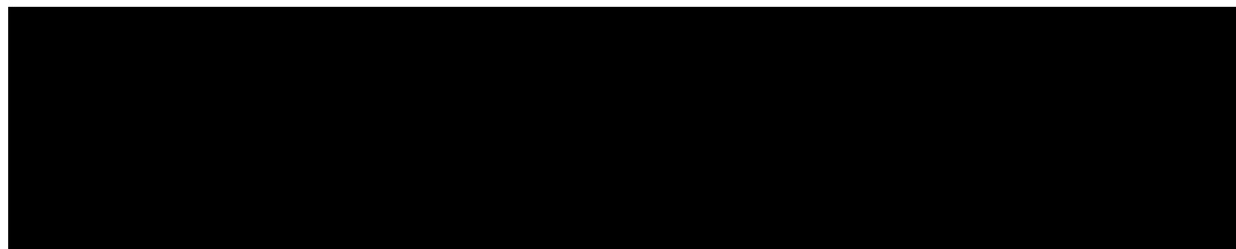
25X1D

REMARKS:

A SMALL PROBABLE FIRE STATION HAS BEEN CONSTRUCTED ADJACENT TO THE COMPLEX ENTRANCE. [REDACTED] GALOSH MISSILE CANISTERS WERE IDENTIFIED AT THE COMPLEX. A GALOSH MISSILE CANISTER WAS OBSERVED IN THE HORIZONTAL POSITION AT LAUNCH POSITION 1B3, TRY ADD 1. GALOSH CANISTERS WERE ALSO OBSERVED IN THE HORIZONTAL POSITION AT LAUNCH POSITIONS 2C1 AND 2C4, TRY ADD 2.

MISSILE ORDER OF BATTLE:

3 GALOSH MISSILE CANISTERS



25X1D

25X1D

MOSKVA ABM LAUNCH COMPLEX E33  
[REDACTED] NAC

25X1A

56-20- [REDACTED] N 036-48- [REDACTED] E

STATUS: OPERATIONAL

REMARKS:

ON [REDACTED] A GALOSH MISSILE CANISTER WAS OBSERVED IN THE HORIZONTAL POSITION AT LAUNCH POSITION 1B3, AND A POSSIBLE

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25X1D

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KH-4 MISSION 1111-2

SOVIET UNION  
COMMO/ELEC/RADAR FACILITIES

25X1D

SIGNIFICANT RESULTS

25X1A

25X1D

25X1D

NIKOLAYEV PROBABLE OHF SYSTEM U/C

47-03- [REDACTED] N 032-12- [REDACTED] E

STATUS: UNDER CONSTRUCTION

25X1D

REMARKS:

25X1D

CONSTRUCTION CONTINUED ON A PROBABLE OVER-THE-HORIZON DETECTION (OHF) SYSTEM RECEIVER ARRAY, THE NORTHERN ARRAY OF A PROBABLE BISTATIC SYSTEM. THE SECOND ARRAY, THE NIKOLAYEV PROBABLE OHF XMTR U/C, IS LOCATED 14.0 NM SOUTH AT 46-49- [REDACTED] N 032-12- [REDACTED] E. THE RECEIVER ARRAY IS [REDACTED] LONG AND CONSISTS OF 32 TOWERS [REDACTED] HIGH, ORIENTED ON A BROADSIDE AZIMUTH OF [REDACTED] DEGREES. ON THE [REDACTED] DEGREE SIDE AND PERPENDICULAR TO THE ARRAY, IS A T-SHAPED CONTROL BUILDING. THE LARGE PORTION OF THIS BUILDING IS [REDACTED]

25X1D

25X1D

25X1D

[REDACTED] AND THE SMALLER PORTION OF THE BUILDING IS [REDACTED]. A CABLE TRENCH EXTENDS FROM THE AREA BETWEEN THE CONTROL BUILDING AND THE ARRAY, NORTH TO THE CONTROL BUILDING AT THE NIKOLAYEV RADCOM RCVR STA (BE [REDACTED]). AN AREA OF CONSTRUCTION ACTIVITY IS IN FRONT OF THE PROBABLE RECEIVER ARRAY. TWO STRUCTURES, ONE ON EACH SIDE OF BORESIGHT, HAVE BEEN BUILT ON THE GROUND IN FRONT OF THE ARRAY. THE STRUCTURES ARE RECTANGULAR WITH A ROUNDED ROOF AND HAVE AN UNIDENTIFIED FUNCTION. LOCATED BETWEEN THESE STRUCTURES AND THE ARRAY IS A TRACK OR RAIL WHICH RUNS THE LENGTH OF THE ARRAY. MOUNTED ON THIS TRACK IS A PROBABLE SERVICE/CONSTRUCTION TOWER, WHICH IS [REDACTED] HIGH.

25X1D

25X1D

BETWEEN THE RAILS AT THE SE END OF THE ARRAY ARE SIX MODULAR OBJECTS WHICH HAVE AN UNIDENTIFIED FUNCTION. A PROBABLE CIRCULAR ARRAY IS UNDER CONSTRUCTION NORTH OF THE ARRAY. THIS PROBABLE ARRAY CONSISTS AT PRESENT OF FOUR CONCENTRIC CIRCLES OF EXCAVATIONS. THE DIAMETERS OF THESE [REDACTED]

THE SUPPORT AREA FOR THIS FACILITY IS LOCATED ON THE SW SIDE OF THE ARRAY AND CONTAINS APPROXIMATELY 35 STRUCTURES.

Handle Via  
Talent-KEYHOLE  
Control System Only

Handle Via  
Talent-KYHOF  
Control System Only

TOP SECRET RUFF

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KH-4 MISSION 1111-2

SOVIET UNION  
COMMO/ELEC/RADAR FACILITIES

25X1D

25X1A

25X1D

25X1D

NIKOLAYEV PROBABLE OHF XMTR U/C

46-49-██ N 032-12-██ E

STATUS: UNDER CONSTRUCTION

25X1D

REMARKS:

25X1D

CONSTRUCTION CONTINUED ON THE PROBABLE OVER-THE-HORIZON  
DETECTION (OHF) SYSTEM TRANSMITTER ARRAY, THE SOUTHERN ARRAY OF  
A PROBABLE BISTATIC SYSTEM. THE SECOND ARRAY, THE NIKOLAYEV  
PROBABLE OHF RCVR U/C, IS LOCATED 14 NM NORTH AT 47-03-██ N  
032-12-██ E.

25X1D

THE TRANSMITTER ARRAY IS ██████████ LONG AND  
CONSISTS OF 15 TOWERS ██████████ HIGH, ORIENTED ON A  
BROADSIDE AZIMUTH OF ██████████ A RECTANGULAR CONTROL  
BUILDING CONSISTING OF TWO SECTIONS IS PARALLEL TO THE ██████████  
DEGREE SIDE OF THE ARRAY. THE MAIN PORTION OF THE BUILDING IS  
██████████ THE SMALLER PORTION OF THE  
BUILDING, LOCATED ON THE SE END OF THE MAIN PORTION, IS ██████████

25X1D

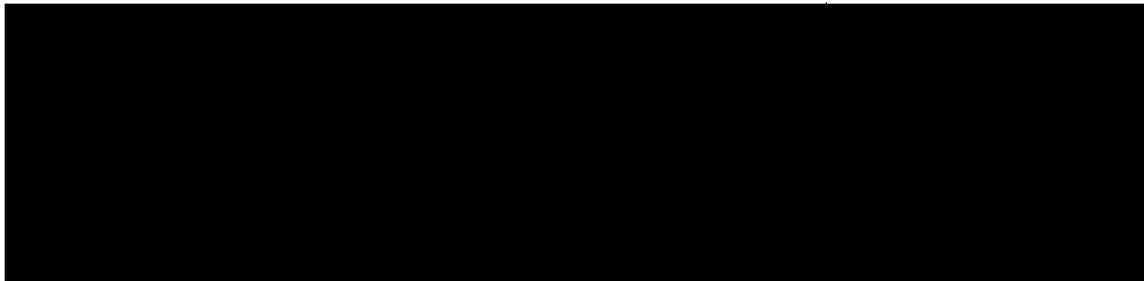
██████████ A TRACK/RAIL WHICH RUNS THE  
LENGTH OF THE ARRAY IS IN FRONT OF THE PROBABLE TRANSMITTER  
ARRAY. MOUNTED ON THIS TRACK IS A PROBABLE SERVICE/CONSTRUCTION  
TOWER, WHICH IS ██████████ HIGH. BASED ON THE  
POSITIONING OF THE CONTROL BUILDING AND THE LOCATION OF THE  
SERVICE/CONSTRUCTION TOWER, IT APPEARS THAT THE PREFERRED  
ORIENTATION OF THE ARRAY IS ██████████ DEGREES.

25X1D

AT EACH END AND TO THE OUTSIDE OF THE TRACK ARE TWO SMALL  
RECTANGULAR BUILDINGS WITH GABLE ROOFS, WHICH HAVE AN  
UNIDENTIFIED FUNCTION. A CONSTRUCTION CRANE IS LOCATED IN THE  
AREA BETWEEN THESE BUILDINGS. TO THE SOUTH OF THE ARRAY IS A  
LARGE SUPPORT BUILDING OF UNIDENTIFIED FUNCTION.  
THE SUPPORT AREA FOR THIS ARRAY IS AN INTEGRAL PART OF THE  
SUPPORT AREA FOR THE NIKOLAYEV RADCOM A AM BC XMTR STA (BE  
██████████). THE AREA IS NE OF THE ARRAY AND HAS BEEN EXPANDED  
BY SEVERAL BUILDINGS.

25X1A

25X1D



Handle Via  
Talent-KEYHOLE  
Control System Only

TOP SECRET RUFF

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
AIR BASE FACILITIES

25X1D

SIGNIFICANT RESULTS

ENGELS AIRFIELD

NAC

25X1A

25X1D

25X1D

51-28- [REDACTED] N 046-12- [REDACTED] E

STATUS: OPERATIONAL

25X1D

REMARKS:

THIS WAS THE FIRST OBSERVATION OF BULL AT THIS AIRFIELD SINCE [REDACTED]

25X1D

AIR ORDER OF BATTLE:

41 BISON

2 PROB BULL

2 PROB CAB

1 PROB COLT

ASSOCIATED OBJECTS:

1 DERELICT BISON WITHOUT  
WINGS

25X1D

25X1A

25X1D LIPETSK AIRFIELD WEST

25X1A

25X1D

25X1D

52-38- [REDACTED] N 039-28- [REDACTED] E

STATUS: OPERATIONAL

REMARKS:

THE EIGHT PROBABLE AND TWO POSSIBLE FLOGGER SEEN ON THIS MISSION REPRESENT THE LARGEST NUMBER OF SUCH AIRCRAFT OBSERVED AT THIS FIELD AND AN INCREASE OF THREE PROBABLE AND TWO POSSIBLE FLOGGER SINCE [REDACTED] WHEN PROBABLE FLOGGER WERE OBSERVED FOR THE FIRST TIME. THE FLOGGER WERE LINED UP ON THE TAXIWAY AND ON THE GRASS BESIDE THE TAXIWAY. THE SE END OF THE RUNWAY, WHERE THE FLOGGER AND FOXBAT WERE OBSERVED IN [REDACTED], WAS CLOUD COVERED.

AIR ORDER OF BATTLE:

5 BEAGLE

8 PROB FLOGGER

2 POSS FLOGGER

28 FIREBAR/BREWER

1 PROB FIREBAR/BREWER

25 FAGOT/FRESCO

14 SMALL SWEEP/DELTA-WING

(AT LEAST)

1 CRATE

2 CLOD

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KH-4 MISSION 1111-2

SOVIET UNION  
AIR BASE FACILITIES

3 FITTER  
12 FISHBED/FISHPOT

6 SMALL STRAIGHT-WING

25X1D



25X1D

25X1D

PRAVDINSK AIRFIELD  
NAC

25X1A 56-31- N 043-28- E

25X1D

STATUS: OPERATIONAL

25X1A

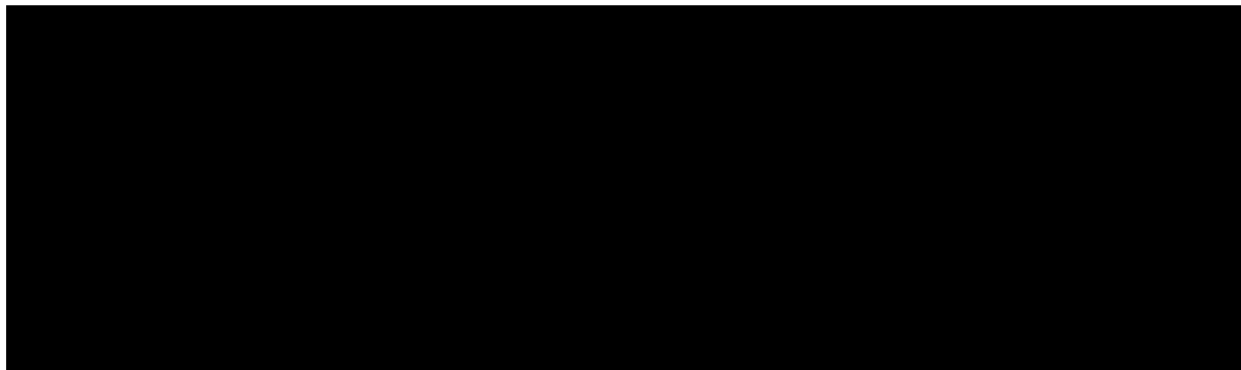
25X1D

AIR ORDER OF BATTLE:

9 FOXBAT  
3 PROB FLAGON  
1 CRATE

9 SMALL SWEEP/DELTA-WING  
5 SMALL STRAIGHT-WING  
1 PROB HEAVY HELICOPTER

25X1D





Handle Via  
Talent-KEYHOLE  
Control System Only

TOP SECRET RUFF

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TCS-20339/70 - IPIR 6  
KH-4 MISSION 1111-2

SOVIET UNION  
INDUSTRY

25X1D

SIGNIFICANT RESULTS

25X1A

25X1A

25X1D

25X1D

ZLATOUST ARMAMENT PLANT 66

55-06- [REDACTED] N 059-42- [REDACTED] E

STATUS: OPERATIONAL

REMARKS:

CONSTRUCTION CONTINUED ON THE BUILDINGS IN AND NEAR PLANT B. THE LARGEST BUILDING, JUST SE OF PLANT B, HAS BEEN COMPLETELY ROOFED. THE COMPLEX OF BUILDINGS ADJACENT TO THE NE CORNER OF THE PLANT WERE NEARING COMPLETION AND WERE SURROUNDED BY A NEWLY ERECTED FENCE. TWO POSSIBLE LARGE RAIL CARS WERE OBSERVED BY THE ASSEMBLY BUILDING AT PLANT B ON [REDACTED]

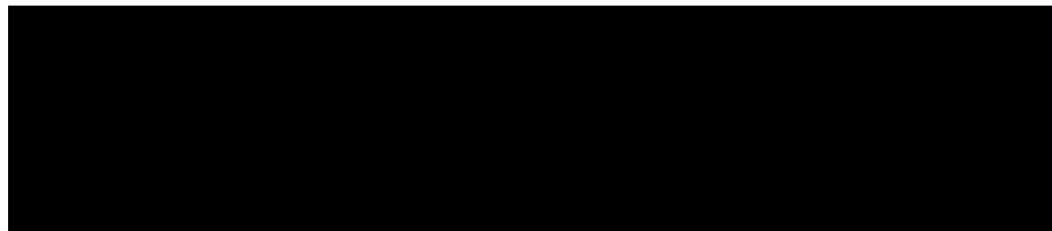
25X1D

25X1D

ASSOCIATED OBJECTS:

2 POSS LARGE RAIL CARS

25X1D

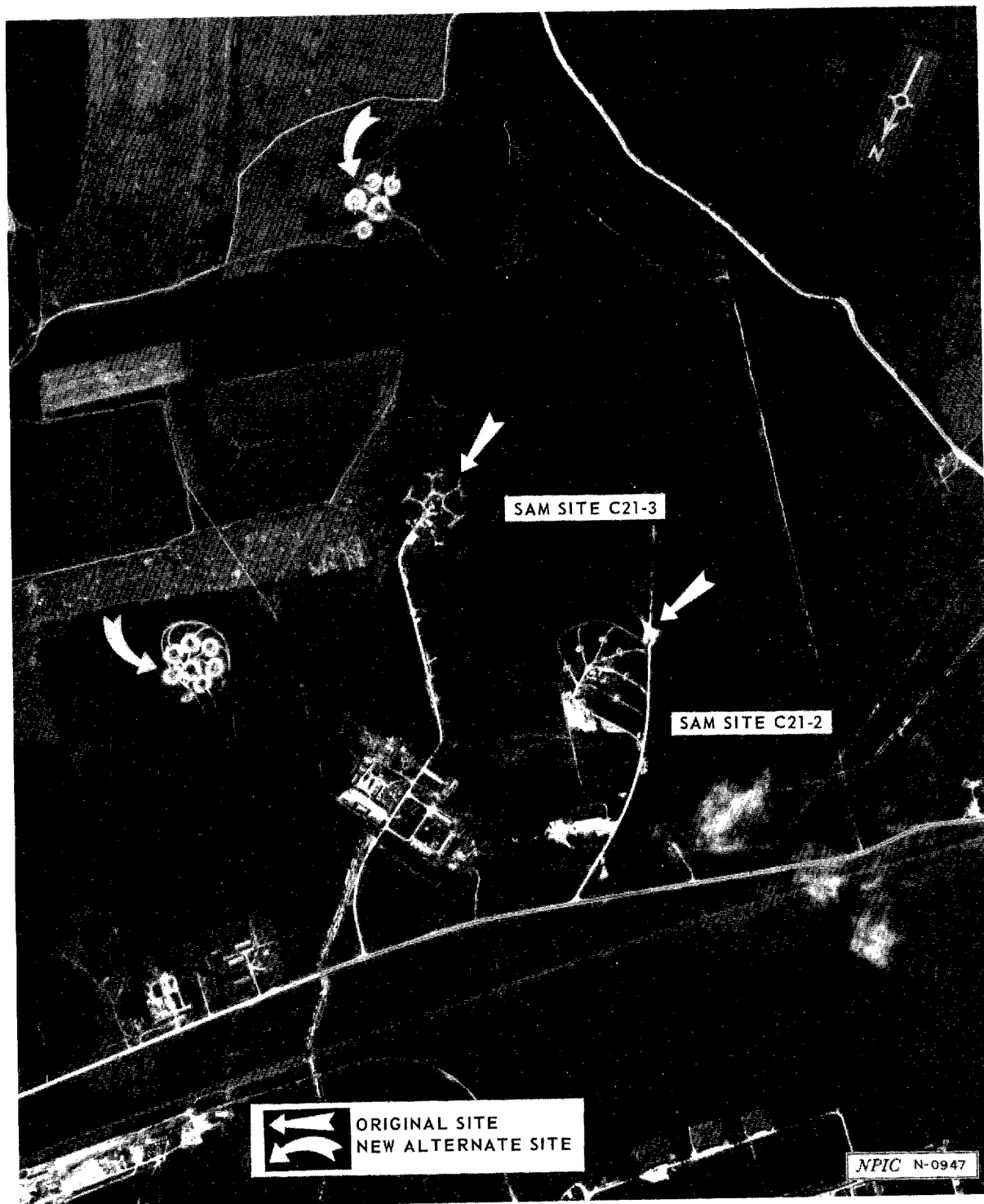


## **Attachments**

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TOP SECRET RUFF  
KH-4 MISSION 1111-2, 29 JULY - 10 AUGUST 1970

TCS-20339/70  
ATTACHMENT 1



NEW ALTERNATE SURFACE-TO-AIR MISSILE DEPLOYMENT Leningrad, USSR

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DEPLOYED ICBM COMPLEXES, TYURATAM MTC, AND PLESETSK MSC

DEPLOYED ICBM COMPLEXES, TYURATAM MTC, AND PLESETSK MSC												
COMPLEX	SS-7	SS-8	SS-9	SS-11	SS-13	OTHER	TOTALS*	LAUNCH GROUPS	LAUNCHERS			
	TYPE IIA, B & D & IIIA	TYPE IIC & IIIB	TYPE IIIC	TYPE IIID	TYPE IIIE	UNDET TYPE			NEW THIS MISSION	DROPPED THIS MISSION		
	SITES		LAUNCHERS						INCLUDED IN TOTAL			
★ ALEYSK			30				30	5	4			
★ DOMBAROVSKIY			65				65	11	7			
★ DROVYANAYA	6	15		50			65	5	5			
★ GLADKAYA	3	7		60			67	6	6			
IMENI GASTELLO			54				54	9	7			
★ ITATKA	3	6					6					
★ KARTALY							42	7	5			
★ KOSTROMA	7	15		90 (1)			105 (1)	9 (1)	9			
★ KOZELSK		5	12	110			122	11	10			
NOVOSIBIRSK	5	12					12					
★ OLOVYANNAYA	3	9		90			99	9	9			
OMSK		1	3				3					
PERM	6	13		80			93	8	7			
★ SHADRINSK	3	9					9					
★ SVOBODNY	8	17		60			77	6	6			
★ TATISHCHEVO				120			120	12	12			
★ TEYKOVO	6	12		80			92	8	6			
★ TYUMEN		2	4				4					
★ UZHUR			60				60	10	8			
VERKHNYAYA SALDA	9	20					20					
★ YEDROVO	8	18		112			130	12	10	1		
★ YOSHKAR OLA	6	12			64 (1)		76 (1)	8	2			
★ YURYA	11	25					25					
★ ZHANGIZ-TOBE			54				54	9	6	2		
TOTALS	84	190	10	23	305	852 (1)	64 (1)	1430 (2)	145 (1)	119	3	

TYURATAM MTC	TOTAL LAUNCHERS INCLUDES 17 SSM R&D SPACE LAUNCH POSITIONS	73			
PLESETSK MSC	TOTAL LAUNCHERS INCLUDES 8 SSM R&D SPACE LAUNCH POSITIONS	33			

\*TOTALS DO NOT INCLUDE THE TRAINING SITES AT THE 17 SINGLE-SILO COMPLEXES NOR THE TYPE IIID LAUNCH SITES AT THE DERAZHNYA MRBM COMPLEX AND THE PERVOMAYSK IRBM COMPLEX.

★ COVERED THIS MISSION  
PARENS INDICATE POSSIBLE LAUNCHERS AND ARE NOT INCLUDED IN COUNT

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TOP SECRET RUFF

TCS-20339/70

KH-4 MISSION 1111-2, 29 JULY - 10 AUGUST 1970

Table 2. SOVIET MRBM AND IRBM DEPLOYMENT

GEOGRAPHIC AREA	SOFT MRBM LAUNCH SITES	SOFT IRBM LAUNCH SITES	HARD MRBM LAUNCH SITES	HARD IRBM LAUNCH SITES	TOTAL LAUNCH SITES	TOTAL LAUNCH POSITIONS
WESTERN	101	10*	18	10	139	544**
CAUCASUS	3		2	3	8	29
CENTRAL ASIA	2	1	1	3	7	25
FAR EASTERN	6	1		1	8	35
TOTALS	112	12	21	17	162	633**

Totals do not include 103 fixed field-type sites with total of 385 launch positions and one launch facility at Sovetskaya Gavan

\*One has only 2 pads

\*\*Totals do not include the 80 inactive launch positions at Gvardeysk, Simferopol, Barano-Orenburgskoye, Balta, Uman (2 sites), Papiaka, Mukachevo, Derazhnya (2 sites), Ugolnyy, Zhitomir (1 site) and Kamenets Podolskiy Complexes

Table 3. TYPE IIID LAUNCH SITES AT MR/IRBM COMPLEXES

COMPLEX	SITES *	LAUNCH GROUPS IDENTIFIED	LAUNCHERS	
			NEW THIS MISSION	DROPPED THIS MISSION
		COMPLETE	INCLUDED IN TOTAL	
★ DERAZHNYA	60	6		
		3		
★ PERVOMAYSK	60	6	5	
		5		
Totals*	120	12	5	
		8		

\*Totals do not include training sites

Parens indicate possible site and are not included in count

★ Covered this mission

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**TOP SECRET**

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**TOP SECRET**